What is claimed is:

| 1 | 1. | A method comprising: |
|---|-------------|---|
| 2 | | dynamically obtaining one or more program operators from source code; and |
| 3 | | applying data transformation to a portion of the source code based on one of said |
| 4 | one or more | program operators to provide encrypting compiler-generated code. |

- 2. The method of claim 1, including mixing the encrypting compiler-generated code with the source code other than said portion before compilation.
- 3. The method of claim 1, further comprising deriving from the source code at least one compiler-generated operator for said data transformation.
- 4. The method of claim 3, further comprising performing encryption using at least one of said at least one compiler-generated operator and said at least one of said one or more program operators.
- 5. The method of claim 1, further comprising selectively encrypting one or more regions of the source code with a custom cipher formed from said at least one of said one or more program operators.
- 6. The method of claim 1, including:

 determining at least two references for each variable of a variable pair to selectively encrypt and decrypt data in between said at least two references; and associating at least two data values with each variable of the variable pair for encryption of the data in a first transformation and decryption of the data in a second
- 6 transformation.

| 1 | 7. | The method of claim 6, further comprising: | |
|---|---|--|--|
| 2 | | iteratively forming matching pairs of said data values for each variable of the | |
| 3 | variable pair; and | | |
| 4 | | creating interlocking Feistal networks in each iteration involving a different | |
| 5 | matching pair of said data values. | | |
| 1 | 8. | The method of claim 7, further comprising: | |
| 2 | | enabling detection of usage of one or more redundant computations in the | |
| 3 | interlocking Feistal networks; and | | |
| 4 | | in response to a change in at least one of the one or more redundant computations | |
| 5 | provisioning for corruption of unrelated data values relative to said data values. | | |
| 1 | 9. | A method comprising: | |
| 2 | | analyzing flow of data in source code having one or more program operators to | |
| 3 | determine matching references to a pair of variables; | | |
| 4 | | determining a block of the source code in which said pair of variables is not used | |
| 5 | | associating the matching references based on a heuristic to provide data | |
| 6 | encryption to modify a portion of the source code into encrypting compiler-generated code; an | | |
| 7 | | mixing the encrypting compiler-generated code with the source code. | |
| 1 | 10. | The method of claim 9, wherein analyzing flow of data further including: | |
| 2 | | detecting a first region of the source code in which use of a stored value for at | |
| 3 | least one variable of said pair of variables occurs; and | | |
| 4 | | detecting a second region of the source code in which the stored value is defined | |
| 5 | for the at least one variable of said pair of variables. | | |

| 1 | 11. | The method of claim 9, including utilizing the heuristic to enhance obfuscation of | | | |
|----|---|--|--|--|--|
| 2 | the encrypting compiler-generated code within the source code using at least one of said one or | | | | |
| 3 | more progran | ore program operators. | | | |
| | | | | | |
| 1 | 12. | A method comprising: | | | |
| 2 | • | identifying a first reference point and a second reference point within a set of | | | |
| 3 | blocks of source code having one or more program operators; | | | | |
| 4 | | associating an encryption code in proximity to the first reference point and | | | |
| 5 | associating a decryption code in proximity to the second reference point; and | | | | |
| 6 | | compiling a portion of the source code into encrypting compiler-generated code to | | | |
| 7 | mix with the | mix with the source code other than said portion. | | | |
| | | | | | |
| 1 | 13. | The method of claim 12, further comprising: | | | |
| 2 | | customizing a cipher based on at least one of said one or more program operators; | | | |
| 3 | | selecting a block from the set of blocks, the block containing a first variable | | | |
| 4 | having a maximum distance over the set of blocks, and a second variable having a next maximal | | | | |
| 5 | distance in the same block; | | | | |
| 6 | | providing the encryption code to encrypt data in between a pair of references to | | | |
| 7 | the first and second variables; and | | | | |
| 8 | | providing the decryption code to decrypt said data. | | | |
| `1 | 14. | The method of claim 13, further comprising recompiling the encrypting compiler- | | | |
| 2 | | de with the source code other than said portion into tamper resistant object code. | | | |
| | - | | | | |
| 1 | 15. | The method of claim 13, including: | | | |
| 2 | | deriving from the source code at least one compiler-generated operator for data | | | |
| 3 | flow transformation; and | | | | |

4 using at least one of said at least one compiler-generated operator and said at least 5 one of said one or more program operators to provide the encryption code. 16. 1 An article comprising a medium storing instructions that, if executed enable a 2 system to: 3 dynamically obtain one or more program operators from source code; and 4 apply data transformation to a portion of the source code based on one of said one 5 or more program operators to form encrypting compiler-generated code. 17. 1 The article of claim 16, further comprising instructions that if executed enable the 2 system to mix the encrypting compiler-generated code with the source code other than said 3 portion. 18. The article of claim 16, further comprising instructions that, if executed enable the 1 2 system to use at least one compiler-generated operator and said at least one of said one or more 3 program operators for encryption. 19. 1 The article of claim 16, further comprising instructions that, if executed enable the 2 system to selectively encrypt one or more regions of the source code with a cipher formed from said at least one of said one or more program operators. 3 20. 1 An apparatus comprising: 2 an analyzer to perform data flow analysis of source code to dynamically obtain 3 one or more program operators therefrom; and 4 a code transformer coupled to said analyzer to apply data transformation to select

a selected region of the source code in which to provide encrypting compiler-generated code

based on one of said one or more program operators.

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21. The apparatus of claim 20, further comprising a cipher based on said at least one 1 2 of one or more program operators. 22. The apparatus of claim 20, further comprising an encryption engine to selectively 1 encrypt and decrypt the selected region based on references to a variable identified in the 2 selected region. 3 The apparatus of claim 22, further comprising a heuristic to select the selected 1 23. 2 region and the references. 24. A system comprising: 1 a dynamic random access memory having source code stored therein; 2 an analyzer to perform data flow analysis of the source code to dynamically 3 obtain one or more program operators therefrom; and 4 a code transformer coupled to said analyzer to apply data transformation to select 5 a selected region of the source code to provide encrypting compiler-generated code based on one 6 7 of said one or more program operators. 25. The system of claim 24, further comprising a cipher based on said at least one of 1 2 one or more program operators. 1 26. The system of claim 24, further comprising an encryption engine to selectively encrypt and decrypt the selected region based on references to a variable identified in the 2 3 selected region. 1 27. The system of claim 26, further comprising a heuristic to select the selected 2 region and the references.